



Welding Diploma - 65 credits

Program Area: Integrated Manufacturing Welding (Fall 2017)

*****REMEMBER TO REGISTER EARLY*****

Program Description

The welding program allows students to gain the information needed to develop skills used in the welding industry. This program covers MIG, TIG, SMAW and gas welding. Instruction includes classroom lectures and demonstrations as well as hands on projects in the lab.

Program Outcomes

- Demonstrate an understanding of welding equipment and proper safety
- Demonstrate an understanding of blueprints and blueprint reading
- Demonstrate an understanding of proper welding processes
- Demonstrate an understanding of cutting processes
- Demonstrate an understanding of different weld transfers
- Select metals based upon weldability
- Demonstrate an understanding of TIG welding and setup
- Demonstrate an understanding of MIG welding and setup
- Understand MIG wire selection
- Demonstrate an understanding of proper layout
- Understand weld symbols
- Prepare student for welding certification

Pre-program Requirements

Successful entry into this program requires a specific level of skill in the areas of English/reading and mathematics. Program entry will depend, in part, on meeting the prerequisites listed below:

English/Reading:

- A score of 78 or higher on the reading comprehension portion of the Accuplacer, or
- Completion of ENGL/READ 0950 or 0955 (or equivalent course or higher). ENGL/READ 0955 may be taken concurrently with Semester I coursework.

Required Courses

Number	Name	Credits	Term
CADE 1468	Solidworks I	3	
INMG 1400	Intro to Manufacturing Technology	4	
INMG 1410	Mechanical Blueprint Reading	3	
INMG 1420	Design Application Concepts I	3	
WLDG 1560	Gas Metal Arc Welding I	3	
INMG 1422*	Design Application Concepts II	3	
WLDG 1500	Blueprint Reading for Welders	3	
WLDG 1520	Gas Tungsten Arc Welding I	3	
WLDG 1540	Shielded Metal Arc Welding I	3	
WLDG 1570*	Flux Cored Arc Welding I	3	
WLDG 1522*	Gas Tungsten Arc Welding II	3	
WLDG 1542*	Shielded Metal Arc Welding II	3	
WLDG 1562*	Gas Metal Arc Welding II	3	
WLDG 1564*	Gas Metal Arc Welding III	3	
WLDG 1572*	Flux Cored Arc Welding II	3	
WLDG 1580*	GMAW Fabrication Methods	3	
COMM 1601	Interviewing Procedure and Practice	1	
WLDG 1524*	Gas Tungsten Arc Welding III	3	
WLDG 1544*	Shielded Metal Arc Welding III	3	
WLDG 1550*	CNC Plasma and Cutting Processes	3	
WLDG 1582*	GTAW Fabrication Methods	3	
WLDG 1590*	Introduction to Robotic Training	2	
WLDG 2502	Weld Qualification	1	

Total Credits

65

***Requires a prerequisite or a concurrent course**



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Mathematics:

- A score of 33 or higher on the **Elementary Algebra Skills** portion of the Accuplacer, or
- Completion of MATH 0520 (or equivalent course or higher). MATH 0520 may be taken concurrently with Semester I coursework

For interpretation of test results and selection of appropriate coursework;
or general information about the program, admissions, financial aid, and getting started at LSC,
contact the professional team at pat@lsc.edu or 218-733-7601

For more information about the Welding Diploma including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see program Website:

<https://degrees.lsc.edu/welding-diploma/>

- or -

Contact Faculty Advisors, Jay Vittone: j.vittone@lsc.edu or 218-733-7705



MINNESOTA STATE

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LSC Major ID: 6109

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